

TETRA TECH, INC.

4213 State St., Suite 205 Santa Barbara, CA 93101 Telephone (805) 681-3100 FAX (805) 631-3108 Project: Vandenberg Air Force Base

Log of Well No. 7-MW-4

Location: OU5, Site 7, Bear Creek Canyon, approx. 600 ft southeast of intersection of Bear Creek Canyon and Surf Road.

Date Started: 7/1/94	Completed: 7/6/94	4" P	VC Blank Casing:	from	0	ft bgs to	44 ft bgs
Logged By: J. Bonebrake	Checked By: R. Horwath, RG	.010	" Screened Casing:	from	44	ft bgs to	64 ft bgs
Drilled By: T. De Vries, La	yne Env.	Benton	ite/Cement Grout:	from	1.5	ft bgs to	38 ft bgs
Drilling Equipment: CME 75	0, HSA	Bentoni	te Transition Seal:	from	38	ft bgs to	42 ft bgs
Sampling Equipment: 2" ID S	plit-spoon	2/12	Sand Filter Pack:	from	42	ft bgs to	68 ft bes

GS Elev.:	100.5	ft above MSL	TD: 68.0 ft bgs	то	C Elev.:				ft	above M	SL		
Depth (ft bgs)		DESCRIPT			raphic/ JSCS	Con	Well	ion	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
-	clayey silt sand, well alluvium.	l sorted, subrounded, le	R 3/4), fine grained, trace ow plasticity, soft, moist,		ML					2 2 2	100	0.0/3	Start 0955. Sample V7MW4-0 sent for chemical tests.
	<u>clay</u> black moist, allu	((10YR 2/1), low to m uvium.	edium plasticity, stiff,		CL		*///8///8///			3 4 7	60		Sample V7MW4-2MS sent for chemical tests.
5									V	4 5 9	17	0/0	Sample V7MW4-5
	clay, well alluvium.	sorted, subrounded, m	to medium grained, trace edium dense, very moist,		SM				X	2 2 2	89	0/0	and V7MW4-6 sent for chemical tests (replicates).
-	Same, exc alternating wet, alluv	g with 1/8" thick lenses	fine grained, very loose, of silty clay and sandy silt,		<u>+</u>		X///XX///X		X	1 1 1	100	0/0	
10							711841118			2 3 2	100	0/0	
15	Same, exc moist to w	ept gray (5Y 5/1), minet.	or fine grained sand, very							2 2 2	100	0/0	Sample V7MW4-15 sent for chemical tests.
	·	÷								2 2	100	0/0	

7.0 ft bgs Troundwater depth during drilling

7/22/94

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Location: OU5, Site 7, Bear Creek Canyon, approx. 600 ft southeast of intersection of Bear Creek Canyon and Surf Road.

DESCRIPTION Graphic/ USCS Well Construction USCS Well Construction USCS Construction USCS Construction USCS Construction USCS Construction USCS CH	REMARKS
clay black (10YR 2/1), minor fine gravel, high plasticity,	
25	Sample V7MW4-25 sent for chemical tests.
clavey sand dark gray (2.5Y 4/1), fine to medium grained, trace coarse sand, well sorted, subrounded, low plasticity, medium dense, wet, alluvium.	O
40 Silty sand dark gray (2.5Y 4/1), fine to medium grained, well sorted, subrounded, medium dense, wet, alluvium. SM 2 2	0
sand dark gray (2.5Y 4/1), fine grained, minor silt, moderately sorted, subrounded, medium dense, wet,	O Start of PVC vee-wire screen.

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Location: OU5, Site 7, Bear Creek Canyon, approx. 600 ft southeast of intersection of Bear Creek Canyon and Surf Road.

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	silty sand with fine to coarse gravel, fine grained sand, well sorted, subangular, medium dense, wet, alluvium.	SP SM		14 10 11 14 14		3	
50				6 8 8 8 8	89	0/0	
	Same, except dark grayish brown (2.5Y 4/2), trace fine gravel, dense, very moist, alluvium.			6 11 11 11	25		
	Same, except very dark gray (2.5Y 4/3), minor sand lenses, moderately sorted, medium dense, wet, alluvium. Same, except dark grayish brown (2.5Y 4/1), with fine to coarse grained sand, alluvium.			13 10 15 15	75		
55	sandy silt very dark grayish brown (2.5Y 3/2), fine grained,	ML		9 13 22 3	75		Sample V7MW4-55 sent for physical tests
	well sorted, subrounded, medium dense, stiff, alluvium. silty sand dark grayish brown (2.5Y 4/2), fine to coarse grained, minor fine gravel, moderately sorted, subangular, medium dense, very moist, with dark brown wood pieces, alluvium.	SM		5 9 13	100	0/0	
60	Same, except decrease in gravel, increase in silt.			11 14 4 7		0,0	
	Same, except no gravel. Same, except very loose and trace clay.			9 11 2 2 2			
65	Same, except wood pieces now colored amber and red.			2 2 2 2 2 2	100	0/0	
	sand dark gray (2.5Y 4/1) fine grained, trace medium grained sand, minor silt, well sorted, subrounded, medium dense, wet, alluvium.	SP		3 3		1	Sample V7MW4-65 sent for chemical tests.
-	shale olive gray (5Y 4/2), hard, moist, weathered shale aquitard, possible Sisquoe Formation.	SHALE		3 9]	TD of 12" auger = 57'. End Time 1545. TD of 8" auger = 68'.

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